

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
to a collection of information unless it contains a valid OMB control number.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

Complete if Known

Application Number	10/701,655
Filing Date	11/04/2003
First Named Inventor	Kesheng Wu
Art Unit	2819
Examiner Name	Khai M. Nguyen
Attorney Docket Number	IB-1852

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 1

U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

**Examiner
Signature**

Nguyễn Khoa

09/28/04

Date Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.¹ Applicant's unique citation designation number (optional).² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
		Application Number	10/701,655
		Filing Date	November 4, 2003
		First Named Inventor	WU, Kesheng, et. al.
		Art Unit	2819
		Examiner Name	Khai M. Nguyen
Sheet <u>1</u> of <u>1</u>	Attorney Docket Number	IB-1852	

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
KN	D	WU, Kesheng et al.; Notes on Design and Implementation of Compressed Bit Vectors, Sept. 27, 2001; p. 1-42	
KN	E	WU, Kesheng et al.; Compressed bitmap indices for efficient query processing; LBNL-47807, (2001), p.1-16	
KN	F	WU, Kesheng et al.; A Performance Comparison of bitmap indexes; CIKM 2001, Atlanta, GA; 3 pgs.	
KN	G	WU, Kesheng, et al.; Compressing Bitmap Indexes for Faster Search Operations; (2002); 10 pgs.	
KN	H	STOCKINGER, Kurt; WU, Kesheng; and SHOSHANI, Arie; Strategies for Processing ad hoc Queries on Large Data Warehouses; DOLAP'02; November 4-9, 2002; 8 pgs.	
KN	I	WU, Kesheng; KOEGLER, Wendy; CHEN, Jacqueline; and SHOSHANI, Arie; Using Bitmap Index for Interactive Exploration of Large Datasets; (2003); 10 pgs.	
KN	K	WU, Kesheng; ZHANG, Wei-Ming; SIM, Alexander; GU, Junmin; and SHOSHANI, Arie; Grid Collector: An Event Catalog With Automated File Management; (2003); 5 pgs.	
KN	L	WU, Kesheng; OTOO, Ekow; and SHOSHANI, Arie; On the Performance of Bitmap Indices for High Cardinality Attributes; LBNL-54673; March 5, 2004	

Examiner Signature	<i>Nguyenkhai</i>	Date Considered	09/28/04
--------------------	-------------------	-----------------	----------

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.